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(54) ULTRAVIOLET-ABSORBING AND HEAT-INSULATING GLASS

(57)Abstract:

PURPOSE: To provide a glass with the durability, wear resistance, etc., remarkably improved by laminating a multilayer film including a noble-metal thin film on the surface of a transparent glass substrate and then applying a silicone hard coat through a primer coat contg. a fluorescent brightener and a UV absorbent.

CONSTITUTION: A multilayer film including at least one layer of a noble-metal thin film is laminated on the surface of a transparent glass substrate, and then a synthetic-resin primer soln. contg. dissolved fluorescent brightener and UV absorbent is applied, heated and cured. A silicone hard coat soln. obtained by dissolving a siloxane prepolymer in org. solvent is then applied, heated and cured, the process is repeated, and a UV-absorbing and heat-insulating glass is obtained. This glass having a relatively high visible light transmittance and capable of sufficiently securing a visible field is used as the window, transparent heating element, electromagnetic wave shielding body, etc., for the building and vehicle with the comfortableness remarkably improved.

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AIMS

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claim 1] Lamination membrane formation of the multilayer film which contains one or more layers of
diene-metal system thin films at least on the surface of a transparent glass substrate is carried
Subsequently, ultraviolet absorption heat insulating glass which covers with applying and carrying
heat cure of the silicone series hard coat solution made to dissolve a siloxane prepolymer in an
anic solvent after applying and carrying out heat cure of the synthetic resin system primer liquid
ch carried out dissolution addition of a fluorescent brightener and the ultraviolet ray absorbent
by one, and is characterized by things.

aim 2] The ultraviolet absorption heat insulating glass according to claim 1 with which a multilayer
containing one or more layers of said precious-metal system thin film is characterized by being
electric, a precious-metal system or the alloy system and a metal system, sequential lamination
dielectric, or 3 thin or 7 layer membranes that change in the repetition lamination.

aim 3] Claim 1, wherein said precious-metal system thin film is Ag, Au, Cu, Pt, or its alloy system,
multilayer film which contains one or more layers of said precious-metal system thin films.

aim 4] The ultraviolet absorption heat insulating glass according to claim 2, wherein dielectrics of
multilayer film are Si, Ti, Sn, aluminum, or SUS, Ta, Zn, In, SiC and an oxide of these alloys, a
ide, and a nitrogen-oxide film.

aim 5] The ultraviolet absorption heat insulating glass according to claim 1, wherein said synthetic
in system primer liquid is an acrylic solution containing a silicone component.

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DESCRIPTION OF DRAWINGS

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aving 1] It is a figure showing the spectral transmittance curve of Example 1 of this invention, and
comparative example 1 and the comparative examples 4 which are conventional examples.

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